



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,339	08/26/2003	Jung-Tao Liu	29250-001071/US	3513
7590 01/06/2009 HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 8910 Reston, VA 20195				
EXAMINER ADDY, THUAN KNOWLIN				
ART UNIT		PAPER NUMBER		
2614				
MAIL DATE		DELIVERY MODE		
01/06/2009		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/647,339

Applicant(s)

LIU, JUNG-TAO

Examiner

THJUAN K. ADDY

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 December 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-8508)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on December 08, 2008 has been entered. Claims 1, 9, and 20 have been amended. No claims have been cancelled. No claims have been added. Claims 1-20 are still pending in this application, with claims 1, 9, and 20 being independent.
2. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Kadaba et al. (US Patent Application, Pub. No.: US 2002/0172217 A1).
4. In regards to claims 1, 9, and 20, Kadaba discloses a method and control channel for transmitting control signals in a communication network (See pg. 2, paragraph [0012]), comprising: transmitting only control signal data related to

scheduling for uplink transmission of packet data over a single control channel (e.g., Forward Uplink Scheduling Channel {F-USCH} or shared data channel), the single control channel having physical structure and data arrangement therein corresponding to the control signal data transmitted on the single control channel (See pg. 2, paragraph [0012] and pg. 4, paragraph [0035]), the physical structure of the control channel and the data arrangement in the control channel being selecting based on a user transmission mode (for example, the transmission mode may be a scheduling mode or an autonomous mode) (See pg. 1-2, paragraph [0011] and pg. 5, paragraph [0051]).

5. In regards to claim 2, Kadaba discloses the method, wherein the control channel carries different control signal data based on the transmission mode (See pg. 1-2, paragraph [0011] and pg. 5, paragraph [0051]).

6. In regards to claim 3, Kadaba discloses the method, wherein transmitting control signal data further includes transmitting one or more of medium access control buffer status data, transport format data, transport block size data and redundancy data, if the transmission mode is a scheduled transmission mode (See pg. 1-2, paragraph [0011]; pg. 2, paragraph [0025]; and pg. 4, paragraph [0035]).

7. In regards to claims 4 and 12, Kadaba discloses the method and control channel, wherein the scheduling mode specifies that users transmit on the uplink, start times for the user and duration of uplink transmission (See pg. 4, paragraph [0035]).

8. In regards to claims 5 and 13, Kadaba discloses the method and control channel, wherein transmitting control signal data further includes transmitting one or more of,

transport format data, transport block size data, HARQ channel ID data and an indicator indicating whether data carried on a corresponding data channel is a new packet or a re-transmission of a previous packet, if the transmission mode is a rate-controlled transmission mode (See pg. 5, paragraph [0052] and pg. 6, paragraph [0061]).

9. In regards to claims 6 and 14, Kadaba discloses the method and control channel, wherein the rate-controlled mode specifies an allowed data rate for a user, the user transmitting autonomously, subject to the allowed data rate (See pg. 3, paragraph [0030]; pg. 5, paragraph [0051]; and pg. 8, paragraph [0088]).

10. In regards to claims 7, 11, and 15, Kadaba discloses the method and control channel, wherein transmitting control signal data further includes transmitting one or more of medium access control (MAC) buffer status data, pilot transmit power data and data related to priority of a packet in the MAC buffer, if a user is configured in a reporting mode (See pg. 3, paragraph [0029] and pg. 4, paragraph [0035]).

11. In regards to claims 8 and 16, Kadaba discloses the method, and control channel wherein the user transmits the control channel in the reporting mode when the user is neither scheduled for uplink transmission nor transmitting autonomously while subject to an allowed data rate for uplink transmission (See pg. 5, paragraph [0051] and pg. 6, paragraph [0061]).

12. In regards to claim 10, Kadaba discloses the control channel, wherein the sub-frame is comprised of a plurality of slots, each slot containing a plurality of fields of control information that differs based on the transmission mode of the user (See pg. 1-2, paragraph [0011] and pg. 5, paragraph [0051]).

13. In regards to claim 17, Kadaba discloses the control channel, wherein the user is in a reporting mode if there is no companion data on the uplink, in a rate-controlled transmission mode if there is no associated downlink transmission grant message received from a base station, and in a scheduling mode if there is an associated downlink transmission grant message received from the base station (See pg. 1-2, paragraph [0011] and pg. 2, paragraph [0025]).
14. In regards to claim 18, Kadaba discloses the control channel, wherein the at least one sub-frame has a 2 ms transmission time interval (See pg. 3, paragraph [0031] and pg. 4, paragraph [0034]).
15. In regards to claim 19, Kadaba discloses the control channel, wherein the at least one sub-frame has a transmission time interval adapted to be changed based on a desired control channel design, and wherein the number of fields within a given slot of the sub-frame remains constant for any given transmission time interval (See pg. 3, paragraph [0031] and pg. 4, paragraph [0034]).

Response to Arguments

16. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

17. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

18. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to THJUAN K. ADDY whose telephone number is (571)272-7486. The examiner can normally be reached on Mon-Fri 8:30-5:00pm.

20. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

21. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thjuan K. Addy/
Primary Examiner, Art Unit 2614